Receiving Report

Da	ate: <u>/Y/y/</u> 8	* .	ļ	Batch No:	M/28	177	
Su	ipplier: BR	<u> </u>		Dart P/O:	230	652	
Packing Slip: Invoice: Receipt: New Supplier Discrepancies	Yes No Yes No Cash Cr Yes No	-	Release N Waybill At Shipment QC18 Insp Work Orde	tached: Complete: pection	Yes	No No No	N/A N/A N/A
Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
			,				
		<u> </u>	 	Initials of	Receiver	QC12	
Production/Ad Date Received/Cos Initial	<u> </u>	,				Location	1

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23652

Purchase Order Date 4/4/2014 PO Print Date 4/4/2014

Page Number 1 of 3

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

305-925-2600

Buyer

Chantal Lavoie

FedEx PI collect

Customer POID Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Acct: Line Reference Description/ Req Date/ CD PO Unit Price Req Qty/ Extended Nbr Mfg ID Vendor Part Number Taxable Unit of Price Measure **Line Comments Promise Date Delivery Comments** MS27039-1-12 Screw 4/9/2014 FN 200.00 \$0.09 \$18.00 Yes Each 4/9/2014 Line Total: \$18.00MS27039-08-10 Screw 4/9/2014 2,000.00 \$0.08 \$160,00

Yes 4/9/2014

Each

MS21919WDG20

4/9/2014

4/9/2014

Line Total:

\$160.00

Clamp

20.00 Each

\$1.07

\$21.40

Note:

4/4/2014



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23652

Purchase Order Date 4/4/2014 PO Print Date 4/4/2014

Page Number 2 of 3

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

305-925-2600

Buyer

Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Acct:

Ship Via:

FedEx PI collect

Customer POID

Customer Tax #

10127-2607 Net 30

Terms Currency

USD

FOB

FCA - (Free Carrier)

Line Total:

\$21.40

MS171539

Pin

4/9/2014

4/9/2014

Yes

20.00 Each

\$0.80

\$16,00

Line Total:

\$16.00

71401-45

PROCUREMENT QUALITY CLAUSES 4/9/2014

1.00

\$0.00

\$0.00

Procurement Quality Clauses

4/9/2014

No

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER OUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS - Each

Line Total:

\$0.00

Note:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23652

Purchase Order Date 4/4/2014 PO Print Date 4/4/2014

Page Number 3 of 3

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

305-925-2600

Buyer

Chantal Lavoie

705 725-2000

FedEx PI collect

Customer POID
Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

PO Total:

\$215.40

Town & Cartin B. I. i. (C. 11)

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR ' www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23652

LNE# QUANTITY U/M PART-NUMBER

CUST RE

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

63853

MAC FASTENERS

ORFT4

Jason Lewis

Vice President of Quality

Inv # 04/08/14

MACFASTENERS, INC.

1110 Enterprise Street
' Ottawa, KS 66067
Phone: 785-242-8812
Fax: 785-242-4616

Packing List

Bill B/E AEROSPACE CONSUMABLES MGMT To: 10000 NW 15TH TERRACE MIAMI, FL 33172 Ship B/E AEROSPACE CONSUMABLES MGMT
To: 9835 NW 14th Street
Miami, FL 33172
United States

Shipment No: 62281

Shipment Date: 02/04/14

Ship Via: United Parcel Service

Order Number: 45869 **Order Date:** 07/23/12

Customer Code: BE AEROSPACE

Phone: (305) 925-2600

PO Number: 0JWA02

Terms: Net 30 Days

LOT #63853

		Qua	ntity			•	Job
<u>ltem</u> 2	<u>Open</u> 125.000	<u>Shipped</u> 140,000	Back Ord 0	Canceled	<u>Unit</u> M	<u>Description</u> MS27039-08-10 Screw machine pan head	<u>Number</u> 63853
	·					structural cross recessed	

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND **MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0JWA02

PART NUMBER: MS27039-0810

REV: 4

LOT NUMBER: 63853

MANUFACTURED QUANTITY: 140,000

MILL HEAT NUMBER: 8172051

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon reques

DATE: 02/03/14

ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company- SAI GLOBAL - 0058029

• MAC FASTENERS, INC. 1110 EAST ENTERPRISE OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER		IUMBER	MFG QUANTITY	02/03/14
B/E AEROSPACE		0JWA02	140,000	
PART NUMBER MS27039-0810	REV	LOT NO	PROCUREMENT	r spec
	4	63853	NA	ASM7839

MATERIA	TYPE 8	740			RIAL SPEC			1	8172051		SUPPL	IER IOHNST	OWN
C .40	.25	Mn .86	P .010	s .11	.09	Ni .44	Cr .49	Мо .22	.003	В	Fe	.026	Ti
	Со	N .0043	Bi	Pb	Mg	Zn		Nb	Sn .006			Other	

MECHANICAL TEST RESULTS - TESTING PER NASM1312

	NSILE STRENGTH OUNDS
2,450	2,390
2,530	2,440
2,450	2,480
2,480	2,450
2,490	2,460
2,510	
2,490	
2,470	
MIN, REQ.	1,750

DOUBLE SHEAR STRENGTH POUNDS / PSI
TOO SHORT TO TEST PER
NASM1312-13
MIN. REQ.

HARDNESS							
ROCKW	ELL "C" SCALE						
REQ.	26 - 32 HRC						
SAMPLE SIZE	13						
ACTU	IAL RESULTS						
28	3 - 30 HRC						

	METALLUR	RGICAL EXAMINATION	
Discontinuities	v	Carb/Decarb	V
Grain Flow		Microstructure	Ø
Grain Size	<u> </u>	Apppearance	
Thread Inspec FED-STD-H28/20 - A		stem System 2 21 22	System 23

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	
Liquid Penetrant Inspection per ASTM E1417	
Recess Torque Test	
Head Marking	Ø
Magnetic Permeability ASTM A342 less than 2.0	

Quality Assurance Representative

AS9100C REGISTERED SAI GLOBAL - 0058029

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE:

02/03/14

PO NUMBER:

0JWA02

MANUFACTURED QUANTITY:

140.000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER:

63853

MATERIAL:

TYPE 8740

PART NUMBER:

MS27039-0810

REVISION: 4

REQUIRED HARDNESS:

26 - 32 HRC

SAMPLE SIZE:

13

HARDNESS:

28 - 30 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company - SAI GLOBAL - 0058029

DE TRAY Plating Works

Specialized Electro-Plating and Polishing
Nickel Passivate
Copper Bright Dip
Decorative Chrome Strip Copper
Satin Chrome Descale
Zinc
Cadmium

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052 Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@Aol.com

January 30, 2014

Mac Fasteners 1110 East Enterprise Street Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been cadmium plated per QQ-P416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 2. Please reference our Invoice# 176452 dated 1/30/2014 for:

Lot#- 63853

P.N.- MS27039-08-10

James T. Pierson, Vice-President

DE TRAY PLATING WORKS

Please Visit our Web Site: DeTrayPlating.com



Johnstown Wire Technologies

124 Laure[‡] Ave, . Johnstown, PA 15906

Phone: 814-532-5680 Fax: 814-532-5684 **TEST REPORT**

WORK ORDER

796993

LOT NUMBER K-8172051 SALES ORDER / RLS

002173 / 2

SOLD TO

Mac Fasteners, Inc. C/O TD Logistics Inc. 14505 W 100th Street Lenexa, KS 66215 USA



CUSTOMER P.O. 50516		JSTOMER 40160				QUAN 18,440	LBS		001192		-		ENT DAT 12013
SPECIFICATION Ma AMS2301; AMS63 Regulation Suppl Rod Spherodize A Size: .160 +.001	22; Al ement Annea	MS-S-604 Silicor	ı Killed i	fine G	rain All	rcraπ wua	ility/Cc	5000 Pold Hea	SI Max ding Qua	Defense ality Dra	Federal awn Fron	Acqı n An	uisition nealed
CERTIFICATION REQ	UIREME	ENTS				٠.							
					CI	nemical	<u>. </u>						
C .40	Mn 86	.010	.01	5 1	Si .25	A1 .026	N . 4	ii. 4	Cr .49	Мо .22	Cu . 09	-	.003
Cb .001 ????	Ti ???	N .0043	. 00		·								
					Р	hysical		,					
AMS 2301 0000	J1 58	J10 42	J11 39	J12 38	J2 57	∵ J3 56	J5 55	J4 56	J6 54	J7 51	J8 48	J9 45	
MacroClean E	-381												
					Me	chanical						·	
TEST Tensile Str RA Per Cent Decarb FFD Surface def. dept	h	<u></u>	UNITS Lbs/Sq Percent Inches Inches			· =		HIGH 90000 73.2 .000		<u>LOW</u> 87000 69.8 .000) })		ERAGE 88000 72.0 .000
					Rod /	Meit Soul	ce				. <u></u>		
Rod Source Republic			t Sour	ce		Country USA	y of (rigin	Nai Yes				
			• .		C-4 of	` Certification							

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the Items tested.

Daniel J. Mallik Director of Quality Assurance

Rapublicsteel.

CERTIFICATE OF TESTS

1807 RAST 28TH NT. SHOWE: 390-498-8580 EURANN, CH 44955 WANT 330-438-5685

REPUBLIC STEEL

6/25/2013 11:08:00 AM PAGE 1 OF 2

PURCHASE ORDER DATE: PURCHASE ORD: 84083 5672-1921-01 PART NUMBER: FXT40AA-.3125 ACCOUNT NUMBER: į 4931-93 SCHEDULE: ORDER NUMBER: 1547433 - 01 • REVISION: 1 6172051 JOHNSTOWN WIRE TECHNOLOGIES JOHNSTOWN WIRE TECHNOLOGIES EDWARD ZAPOLA 124 LAUREL AVE C/O C & BL RAILROAD JOHNSTOWN, PA 15906 TRACK 629 JOHNSTOWN, PA 15901 ----- MATERIAL DESCRIPTION ------HOT ROLLED STEEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA 10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COND B-1 EXC MARK & UT WAIVED EF-AISI-8740-H FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY RESTRICTED CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS SIZE: RDS .3125 DIAM X COIL RDS 7.9375MM DIAM X COIL LADLE CHEMISTRY & ------SI CU NI C MN P S 0.49 0.25 0.09 0.44 0.011 0.40 0.86 0.010 N CB SN AL : **23** MO ν 0.0043 0.22 0.0001 0.001 0.003 0.006 0.026 CALCULATED TESTS -----REDUCTION RATIO 1,690.4 TO 1 AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM SAE J406/ASTM A255 JOMINY HARDNESS TEST 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 58 57 56 56 55 54 51 48 45 42 39 38 36 34 34 33 32 31 30 29 29 28 28 ASTM E381/MIL STD 430 MACRO ETCH TEST ETCHANT: HCL TEMPERATURE: 170 S R AVG AMS 2301 AMS2304 AMS2300 MAGNETIC PARTICLE TEST IND AVG IND AVG preq sev SEV FREQ PCE 03 0 0 0 0 ----- FINISHED SIZE RESULTS -----SAE J419/ASTM EI077/JIS GU558 DECARBURIZATION TEST ETCHANT = NITAL MAGNIFICATION = 100X TOTAL COMPLETE SPIKE DEPTH INCHES INCHES INCHES

MTKith

0.003

DIRECTOR QUALITY ASSURANCE

PCE 6585

G. KRUTH

D.

0.002

BY DEBORAH STOKES

1907 TATE TREE PT. #HOME: 330-658-6580

LURATE, ON 44955 240-884-0EE : XXX

REPUBLIC STEEL

6/25/2013 MA 00:80:11 PAGE 2 OF 2

PURCHASE ORD: 84083

PART NUMBER: FXT40AA-.3125

ORDER NUMBER: 1547433 - 01

HEAT:

8172051

PURCHASE ORDER DATE: 3/4/2013

ACCOUNT NUMBER:

5672-1921-01

SCHEDULE:

4931-93

REVISION:

1

CAPABLE OF SEAM DEPTH 1% MAX DIAMETER NOT LESS THAN .005 MAX

NOTES ----CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019,

LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN

NOTES (CONTINUED) ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF

SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

SOURCE INFORMATION -----MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A

MELT METHOD: BF BLOOM RED. RATIO: 1690.4

END OF DATA ----- CC ----- END OF DATA ----

FILE

WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA FAX SHIP TO 1 COPY FILE 1 COPY

1-814-532-5684

G. KRUTH DIRECTOR QUALITY ASSURANCE BY DEBORAH STOKES

17 Kit



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.71 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23652

LNE# QUANTITY U/M PART-NUMBER

20 EA MS21919WDG20

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE CURE DATE EXP DATE

UMP86054A

UMPCO

18076 01/01/12 12/31/26

Jason Lewis

Vice President of Quality

Inv # 04/08/14



UMPCO, INC.

Customer NO. BEA009

Sales Order NO.

371125

MANUFACTURE OF CLAMPS, CLIPS & BRACKETS 7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531 WWW.UMPCO.COM

*** THIS IS A BACKORDER *** SHIPPING DEST CODE MIAM

ASN

SOLD TO

B/E AEROSPACE

CONSUMABLES MANAGEMENT

SHIP

B/E AEROSPACE CONSUMABLES

MANAGEMEN 9835 NW 14th ST

MIAMI, FL 33172

MIAMI, FL 33102-5263 CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNTS

ORDER DATE

F.O.B.

1/2 % 10 NET 30

04/05/12

ORDER DATE

SALESPERSON 80

PURCHASE ORDER NUMBER **0HFB15**

04/05/12

DESCRIPTION

47000

47000

MS21919WDG20

06/08/12

HE SEN COM CON DOS STEU PRO

ITEM ON ORDER QUAN.SHIPPED QUAN. BO

REV E Lot#: UMP86054

Qty: 24000 1Q12 Qty: 22800

Lot#: UMP86054A **1Q12** Lot#: UMP86054A -1Q12

2

GN

FULL_TEST_RPTS

06/08/12

S/C

MM

85% SHELF LIFE REQUIRED GN

NOTE: UNDER 150 # SHIP FED X GROUND. IF OVER 150 # SHIP FED EX NATIONAL LTL

178769

METAL IR# HEAT TREAT IR# FINISH 18# CUSHION IR# 1012

> 10T-A-178758 1012

PACKING SLIP

Page 1

Printed: 05/25/12

14:14:55 PURCHASE ORDER NUMBER

TOTAL CARTONS FEDEX GROUND 033101490

CUSTOMER NO.

SALES ORDER NO.

2-PLTS TOTAL WEIGHT 1881

A WRITTEN RETURN MATERIAL AUTHORIZATION FORM (RMA) MUST BE OBTAINED FROM UMPCO BEFORE RETURNING ANY MATERIALS FOR CREDIT OR REPLACEMENT.

THIS/THESE ARTICLE(S) INSPECTED UNDER "DOD" APPROVED INSPECTION SYSTEM CONFORMS TO AS9100, TS16949 & ISO-9001, CURRENT REVISION.

"WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE/REQUIREMENTS OF SECTION 6, 7 & 12 OF THE FAIR LABOR STANDARDS ACT, AS AMEDIED, AND OF REGULATHORE AND ORDERE OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE/RETHORE AND ORDERE OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE/RETHORE AND ORDERE OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CERTIFY THAT THE CAPTURE AND ORDERS OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CREATED AND INSPECTION OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CREATED AND INSPECTION OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CREATED AND INSPECTION OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CREATED AND INSPECTION OF THE HINTER CYATES DEPARTMENT OF LABOR ISSUED HAND CREATED AND INSPECTION OF THE HINTER CYATES DEPARTMENT OF THE HINTER CYAT UMPCO certifies that parts shipped on above documents conforms in all respects to applicable specifications and/or Standards. Complete physical and chemical test reports as required are on file and available for review and/or Standards. Complete physical and chemical test reports as required are on file and available for review and/or Standards and inspection control of raw material shall be in conformance with all applicable "officialities", drawings and/or standards. Products are produced in a mercury free environment. When applicable to DFAR 252-225-7009 TIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED JAC

DELIVERY RECEIPT NO. 371125

UMPCO, INC. 7100 Lampson Ave. Garden Grove, CA 92841

Authorized Signature Final Inspector



UMPCO, INC. MANUFACTURE OF CLAMPS, CLIPS & BRACKETS
7100 LAMPSON AVENUE P.O. BOX 5158 GARDEN GROVE, CA 92846-5158 714-897-3531 **Customer NO.** RFA009

Sales Order NO.

371125

WWW.UMPCO.COM *** THIS IS A BACKORDER ***

SHIPPING DEST CODE MIAM

ASN

SOLD TO

B/E AEROSPACE

CONSUMABLES MANAGEMENT P.O. BOX 025263

SHIP

B/E AEROSPACE CONSUMABLES

MANAGEMEN

9835 NW 14th ST

MIAMI, FL 33172

CLAIMS FOR ERRORS AND ALL DEDUCTIONS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF INVOICE 1 1/2% SVC. PER MO. CHARGED ON ALL PAST DUE AMOUNTS

F.O.B.

ORDER DATE

RECIPIENT

DESCRIPTION

1/2 % 10 NET 30

04/05/12 PURCHASE ORDER NUMBER

ITEM ON ORDER QUAN.SHIPPED QUAN. BO

ORDER DATE

SALESPERSON

0HFB15

04/05/12

47000

47000

MS21919WDG20

06/08/12

REVE

Υ

Lot#: UMP86054

Qty: 24000

1Q12 Qty: 22800

Lot#: UMP86054A Lot#: UMP86054A 1Q12 Qty: 200 1Q12

GN

FULL_TEST_RPTS

S/C

85% SHELF LIFE REQUIRED GN

NOTE: UNDER 150 # SHIP FED X GROUND, IF OVER 150 # SHIP FED EX NATIONAL LTL

ACCT: 018757

178578

178769

HEAT TREAT IRTH FINISH 18# CUSHION IR # 1012

10T-A-178758

CERTIFICATE OF CONFORMANCE

Page 1

TOTAL CARTONS FEDEX GROUND

033101490

2-PL13

Printed: 05/25/12

14:14:55 **PURCHASE ORDER NUMBER**

CUSTOMER NO.

SALES ORDER NO.

A WRITTEN RETURN MATERIAL AUTHORIZATION FORM (RMA) MUST BE OBTAINED FROM UMPCO BEFORE RETURNING ANY MATERIALS FOR CREDIT OR REPLACEMENT.
THIS/THESE ARTICLE(S) INSPECTED UNDER "DOD" APPROVED INSPECTION SESTEM CONFORMS TO AS9100, TS16949 & ISO-9001, CURRENT REVISION. UMPCO certifies that parts shipped on above documents conforms in all respects to applicable specifications and/or Standards. Complete physical and chemical test reports as required are on file and available for review inforce certains that parts shipped on above documents conforms in all respects to applicable specifications ind/or standards. Complete physical and chemical test reports as required are on file and available for revier recessing product testing and inspection control of raw material shall be in conformance with all applicable pacifications, drawings and/or standards. Products are produced in a mercury free environment. When pplicable to DFAR 252-225-7009

WE HERBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH QUIREMENTS OF SECTION 6, 7 & 12 OF THE FAIR LABOR STANDARDS ACT, AS AME TIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UND UMPCO, INC. 7100 Lampson Ave. Garden Grove, CA 92841

Authorized Signature Final Inspector

DELIVERY RECEIPT NO. 371125

OHFB15

MS21919WDG20

TOTAL 0/0: 704

WHSE ONHAND: 989

MINIMUM: 1500

MAXIMUM: 3000

MIAMI BACKORDERS: 704

*04/24/12 005511 SHORT 05/07/12 008342 AVIAT 02/06/12 022483 KAI

P613995 001-A035611 4745000103 4745000103

EA 06/14/12 82VH41 SCHD (OEM)

06/26/12 807LJ5 SCHD (OEM) 10/12/12 80PZM9 SCHD (OEM)

02/20/12 022483 KAI *06/04/12 005511 SHORT

P617951

11/22/12 842Y73 SCHD (OEM)

REM STK XFER 410786 04/25/12 23 015678 L3 COMMUNICATIONS IS

820

Warehouse 2: Parts Falling below a 6 Month Trend Quantity

Part No.

MS21919WDG20

Description

CLAMP

BALANCE TO STOCK



Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Zardiziori machi/ourbled to ISO 9001, ISC/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Nr.:

Datum / date:

85295814 01/1

Rev. 0

Selte / page: 1 von / of 3

Datum / date: 2011 11 29

Auftraggeber / customer: Braico Metals 15090 Northam Street LA MIRADA CA 90638 USA

Warenempfänger / consignee: Braico Metals 15090 Northam Street LA MIRADA CA 90638

USA Endkunde, Bestell-Nr. / Your cust., ord. no.:

Braico Metals 15090 Northam Street

43-97197 Bestell Nr. / order no.: 2011 06 30 Datum / date: 628380 Auftragsbest. Nr. / order confirm. no.: 2011 07 04 Datum / date:

85295814 Lieferschein Nr. / delivery note: 2011 11 30

Aldkreditiv Nr. / letter of credit no.:

Produkt/product

Form / form: Coll Werkstoff / material: ALCLAD 2024 Zustand / temper: O

Dim. / dim: [inch]: 0,063x48,00 Kundenartikel-Nr / customer article no.:

Bedingungen/terms

Techn, Lieferbedingungen / techn. spec.:

AMS-QQ-A-250/5A, 09.1998

ASTM B 209 - 07

AMS 4040M, 05.2008 Cessna CMMP019, Rev. D, 27 March 1991 Cessna CMMP025, Rev. R. 5 July 94

Sondervorschrift / special terms:

standard grain

AB-Pos. ord-Item.	BNr/Los/Tellios	Gues Nr.	Werkstoff	Kollo packno.	Gewicht netto weight net	Stk. pcs.
Of C4	63354/01/00	01/0045415/1	2024	6283800002	4459,877 lbs	1
04	63354/01/00	01/0045035/1	1230	6283800002		

Gues Nr. / cast no.	AMAG designation	i									T
01/0045035/1	1230	A	Cu	Sân	Mg	Za	π.	٧	Si+Fe	TI+Zr	Sonetic
,	actual	99.59	<0,01	40,01	0,01	0,01	0,02	0,01	0,38	0,02	0,01
01/0045415/1	2024	N	81	70	Car	Min	Mg	Or .	M	Zn	TI
	actual	93,38	0,08	0,10	4,3	0,49	1,5	<0,01	0,01	0,05	0,04
•		TI+2	Sometige	Sometige							<u> </u>
	actual	0.04	0.02	0,03							İ



CUSTOMER COPY

AMAG rolling GmbH, Poetlach 32, A-5282 Ransholen, Österreich — <u>www.amag.st</u> AMAG rolling GmbH, P.O. Box 32, A-5282 Ransholen, Austria — <u>www.amag.st</u>

Sold to: UMPCO INC TR clerk signature:

1 Order No.: 180114 lank

Statement of the state of the s	· · · · · · · · · · · · · · · · · · ·		1.
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The second second	with the principal delegation of the second		. i



Abnahmeprüfzeugnis 3.1 (EN 10204) inspection certificate - mili certificate

85295814 01/1 Nr.:

Rev. 0

Zerifiziert nech/cerified to ISO 9001, ISG/TS 18849, ENVAS 9100, ISO 14001, NADCAP

Seite / page: 3 von / of 3 Datum / date: 2011 11 29

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht. We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werksachverständiger E-Mell / e-mail factory specialist josef.klampfer@amag.at Klampter Josef

Herstellerland: Österreich / goods origin: The goods are of Austrian origin. Maschinell enstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling

Approved UMP 11 5/4/2012 9:16 AM

CUSTOMER COPY

AMAG rolling GmbH, Postlach 32, A-5282 Ranshoten, Österreich — <u>www.amag.al</u> AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshoten, Austria — <u>www.amag.al</u>

Sold to: UMPCO INC TR clerk signature:

12634 ark

Order No.: 180114

CERTIFICATION

Al Mag Heat Treat

9735 Alpaca St. So. El Monte, Calif 91733

Hardening ~ Annealing ~ Straightening

UMPCO, INC

DATE:

MAY 16 2012

YOUR P.O.

LALM12-137

CERTIFICATION NO.:

78513

We hereby certify that we have Heat Treated the following parts:

40

AN743B12 REV.N/C WO#86155

27

MS21919WDE8 REV.E WO#86594

964

MS21919WDG20 REV.E WO#86054

CUSTOMER COPY



Material: 2024-0 HEAT TREATED TO 2024-T42 CONDITION

These parts were heat treated in furnace NO.		15	_@_	920	for_	25 MIN	_Hrs
· <u>-</u>	&		_@_		for		Hrs
	&		_@_	/)	for_		Hrs
•	Ву	As p		MS 2770		Oc.	(NAS)
					7		-

Accurate Anodizing Inc.

P.O. Box 5207 1801 W. El Segundo Blvd Compton, CA 90224 Phone: (310) 637-6099 Fax: (310) 637-6099

Specializing in
MIL-A-8625 Type II and MIL-DTL-5541
ISO 9001:2008 CERTIFIED

Bill To	
UMPCO INC.	
P.O. BOX 5158	
GARDEN GROVI	E. CA 92846-5158

Certification/Packing Slip

Date	Invoice #
5/22/2012	57026

Ship To	
UMPCO INC.	
7100 LAMPSON AVE.	
GARDEN GROVE, CA 92645	

s	hip	P.O. Number	Via	Terms	Due Date
5/22	/2012	LACC12-142B	OUR DEL.	NET 30	6/21/2012
Quantity	Units	Descripti	ion		Misc.
964	LBS	Part: MS21919WDG20 Lot/WO: 86054 REV: E Containers: 8 Process: Chem-filmed per MIL-DTL-5 and Supersedes MIL-C-5541E Class 1 Waste Treatment Surcharge	5541F Type 1 Class 1A A), Gold	(Meets	
		CUSTOMER COF	γ	17	8793

ACCURATE ANODIZING CERTIFIES THAT THESE PARTS WERE PROCESSED IN ACCORDANCE WITH THE PROCESSES OR SPECIFICATIONS LISTED ABOVE. FINISH REQUIREMENTS. THAT ARE NOT REQUIRED TO BE TESTED DIRECTLY, ARE CONTROLLED THROUGH STATISTICAL MEANS AND MONTHLY TESTING; ACCURATE ANODIZING ASSUMES NO RESPONSIBILITY FOR FAILURES RESULTING FROM NORMAL STATISTICAL MAINTENANCE OF THE PROCESSES OR SPECIFICATIONS OF THE PROCESSES OF THE PROCESSES OR SPECIFICATIONS OF THE PROCESSES OR SPECIFICATIONS OF THE PROCESSES OF THE PROCESSES OR SPECIFICATIONS OF THE PROCESSES OF THE PROCESSES OF THE PRO

STATISTICAL VARIATION.

Approved by Quality Assurance:

Received By / Date:

05/23/12

Approved UMP 11 5/29/2012 9:28 AM 1Q12

SHERCON	Production Materia	n Part A I Test R	pproval - esuits			
CR700802			PART NUMBER DS1020-20	X20G (R353	12-01)
NAME OF LABORATORY SHANGHAI INSTITUTE OF RUBBER P TESTING CENTER	RODUCT		PART NAME	CUSHION		
ASTM SPECIFICATION AMS 3209 L / MIL-	- C-8603B		ADDITIONAL INFORM LOT N	IATION IUMBER S0713:	3	
, TEST ITEM	JEST METHOD	UNIT	SPECIFICATION	SUPPLIER TEST RESULTS		
Hardness ,Shore A	ASTM D2240		70±5	73	×	1
Tensile Strength	ASTM D412	MPa	≥11.7	13.01	×	1
Elongation, Die B or C	ASTM D412	%	≥200	323.21	×	1
Tensile stress at 100% elongation, Die B or C, Stretch specifimen to 125% elongation twice within five minutes before testing	ASTM D412	MPa		9;12	×	
Tear Strength, Die B	ASTM D824,	KN/m	90±18	91,45	×	1
Specific gravity	ASTM D297	g/cm ³	1.38±0.02	1.38	×	T
Heat resistance,70 h at 100℃ Change in hardness, MAX		points	0-+10	7.03	×	I
Change in tensile strength, MAX	1	%	-20	-17.36	×	
Change in ulimate elongation, MAX	ASTM D573	%	-50	-42.45	×	-
Bend (flat)			No cracking or checking	PASS	×	一
mmersion in No. 3 Oil, 70 Hours at 100±1℃				,		
Change in tensile strength, MAX	ASTM D471	%	-50	-42.65	×	
Change in ulimate elongation. MAX		%	-40	-37.15	×	
Change in Volume, MAX		%	40 to 100	57.89	×	
Compression Set(100 Cx70h)	ASTM D395 Method B	. %	≤70	62.56	×	
ow Temperature Brittleness	ASTM D2137 Method A		-35℃±1	PASS	×	
Ozone resistance, 125±5°F, 100±30pphm, 4h 50 min at stongation of 70±3% Dumbbell hape specimen.075"×1.5".075" (specimen conditioned by exposure a dry air at 212 ±5°F for 70)	ASTM D 1149	No Craking	pass	PASS	×	

CUSTOMER COPY



178680

- 1			
	Signature	Title	DATE
	Baoan.Song	Chemist	3/12/2012

Approved UMP 11 5/29/2012 9:31 AM 1Q12

SHERCON	Production Materia	Part A	pproval - esults			
COMPOUND NUMBER			PART NUMBER			
CR700802			DS1020-20	X20G (R353	12-01)
NAME OF LABORATORY			PART NAME			
SHANGHAI INSTITUTE OF RUBBER PI TESTING CENTER	RODUCT			CUSHION		
ASTM SPECIFICATION AMS 3209 L / MIL-	· C-8603B		ADDITIONAL INFORM	IATION NUMBER S0713	4	
		Land of the same o		OMBER SO/15		
Hardness ,Shore A	ASTM D2240		70±5	.71	×	
Tensile Strength	ASTM D412	MPa	≥11.7	12.45	×	†
Elongation, Die B or C	ASTM D412	%	≥200	312.35	×	1
Tensile stress at 100% elongation, Die B or C, Stretch specifmen to 125% elongation twice within five minutes before testing	ASTM D412	MPa		8.74	×	
Tear Strength, Die B	ASTM D624,	KN/m	90±18	92.01	×	
Specific gravity	ASTM D297	g/cm³	1.38±0.02	1.38	×	†
Heat resistance,70 h at 100℃					L	
Change in hardness, MAX]	points	0-+10	8.45	×	Ī
Change in tensile strength, MAX	ASTM D573	%	-20	-16.45	×	
Change in ulimate elongation, MAX	7.01.11.00.10	%	-50	-44.36	×	†
Bend (flat)			No cracking or checking	PASS	×	
Immersion in No. 3 Oil, 70 Hours at 100±1℃						
Change in tensile strength, MAX	ASTM D471	%	-50	-46.45	×	T
Change in ulimate elongation, MAX		%	-40	-35.36	×	
Change in Volume,MAX		%	40 to 100	60.09	×	
Compression Set(100 ℃x70h)	ASTM D395 Method B	%	≤70 `	64.66	×	
Low Temperature Brittleness	ASTM D2137 Method A		-35℃±1	PASS	×	
Ozone resistance, 125±5°F, 600±30pphm, 4h 50 min at elongation of 70±3% Dumbbell shape specimen.075"×1.5"*.075" (specimen conditioned by exposure n dry air at 212 ±5°F for 70)	ASTM D 1149	No Craking	pass	PASS	×	

CUSTOMER COPY



178758

Signature	Title	DATE
Baoan.Song	Chemist	3/19/2012



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23652

LNE# QUANTITY U/M PART-NUMBER

200 EA MS27039-1-12

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MPR DATE EXP DATE

455

MAC FASTENERS

ORFT4

Jason Lewis

Vice President of Quality

Inv # 04/08/14

CUST PO NO

SO NO

SO NO

CUST PO NO

380657

*PURO2BPV

380457

CUST PO NO *PURO2BPV

380657

*PURO2BPV FROM:

800 CLEARWATER LOOP

FROM: BILD INDUSTRIES, INC. POST FALLS, ID 83864

800 CLEARWATER LOOP

FROM: 800 CLEARWATER LOOP BILD INDUSTRIES, INC. POST FALLS, ID 83854

BILD INDUSTRIES, INC. POST FALLS, ID 83854

UFC AEROSPACE CORP. INC. 25 DREXEL DRIVE

BAY SHORE

NY 11706

UFC AEROSPACE CORP. INC. 25 BREXEL DRIVE

BAY SHORE

NY 11706

UFC AEROSPACE CORP. INC. 25 BREXEL BRIVE

BAY SHORE

NY 11706

CUSTOMER BILL TO ADDRESS	COMPLETE CUSTOMER PO NO.	BILL TO NO. SH	IP TO NO. PAGE			大学 电影	
	*PUF02BPV	U	FA001 1	HAC	AINE S		
time amountain more tain	BUYER NAME & PHONE NO.			三大大学	不是是工作	四个	
UFC AEROSPACE CORP.,İNC. P.O. BOX 250	RHONDAZEAX		部では		IMMED		经验证证
BAY SHORE NY 11706		1200000		City to the			
LINE LOC OTY ORDERED TOTAL OTY	926/45570	CUST. PO NO.	CUST, NO.	DESCRIPTION			
	39-1-12	*PURO2BPV	UFA001	SCREW	3x1-5=42		A THE RESERVE
LINE LOC OTY ORDERED TOTAL CTY		CUST. PO NO.	CUST. NO.	DESCRIPTION			
SHIPPED THIS ORDER	CERTS	wPURO28PV	UFA001	CERTIFIC	50 7 5 0	SA ER	WAY 12
THE PARTY OF THE PROPERTY OF THE PARTY OF TH	nining salah manan manang kanan kanan manan m			MMM Medition (15 January) DESCRIPTION	TO THE OWNER OF THE OWNER OWN	100000	SILLAR
LINE LOC QTY ORDERED TOTAL GTY LOT							
HARMANIAN BANKAN	"AUG" 2"3" 2010" " " " " " " " " " " " " " " " " " "						
LINE LOC QTY ORDERED TOTAL DTY	700 % 5 Z010	CUST. PO NO.	CUST. NO.	DESCRIPTION	The state of the s	THE A	
THE THE REPORT OF THE PROPERTY			nsainninin inis i	ang ing ing ing ing ing ing ing ing ing i			2000年200
LINE LOC QTY ORDERED TOTAL OTY LOT		CUST. PO NO.	CUST, NO.	DESCRIPTION	المراج عوالم المرج المراج		
	'Acertare (1773) a strict de el compaño de e		######################################	rendaminiarandon (1907)	10.51		
MB LOC QTY ORDERED	MACHINIAN CANADAN CANA	CUST. PO NO.	CUST. NO.	DESCRIPTION			
	· -						企一上的
LINE LOC QTY ORDERED SHIPPED MS OFFICE LOT	MINIMUM MERINANDI MANAMANI M	CUST. PO NO.	CUST. NO.	DESCRIPTION	LEE LEE		到一个
S-IIPPED THIS GROUN						THE OFF	6 13 4
MEDISHER BANGERSTON METERSTON AND AND AND AND AND AND AND AND AND AN	okustuuttuutt uutta ntiitiitiitiitiiti	CUST. PO NO.	CUST. NO.	DESCRIPTION	第三五三三		金貨金
LINE LOC QTY ORDERED SIPPLED HIS ORDER LOT	·	0001.10 140.	3001.140.	DESCRIPTION			
		DATE	OLIALITY CO	Anna Hora			
CERTIFICATION OF COMMONDER WE HEREBY CERTIFY THAT THE MERCHANDISE INCLUDED ON THE MACKING LIST IS		AUG 13	The			The state of the s	
OR APPLICABLE SPECIFICATIONS AND OR DRAWINGS.	CAGE CODE 31222	5 7 大 7 4 服 报政	E SHIPPED & SHI	PPED VIA		SIGNATURE MER	CHANDISE RECEIVED
No of the second	《大学》		11-7		图 10 13 15 15 15	V	

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND MANUFACTURER'S AFFIDAVIT

CUSTOMER:

BILD INDUSTRIES

DATE:

08/02/09

PO NUMBER:

70926

PART NUMBER:

MS27039-1-12

REVISION:

N: 2

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252,225-7014, ALTERNATE 1 COMPLIANT

LOT NUMBER:

45570

MANUFACTURED QUANTITY:

111,000

MILL HEAT NUMBER:

581950

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in conformance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100/ISO9001 Regestered Company - PJR# C2009-00297

MAC FASTENERS, INC. 1110 EAST ENTERPRISE OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

BILD INDUSTRIES	70926	111,000	l 08/02/09
		<u> </u>	
PART NUMBER REV	LOT NO	PROCUREMENT	SPEC
MS27039-1-12 2	45570	N/	ASM7839

MATERIA	TYPE 8	740		1	ual spe L-S-604			MILL HE	581950	R	SUPP	UER WIRET	ECH
.42	.24	Mn .94	.009	.009	Cu .15	Ni .43	Cr .41	44o .22	V	В	Fe	Al	Yi
	Co	N	Bi	Pb	Mg	Zn		Nb	Sn			Other	<u> </u>

MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS						
3,230	3,230					
3,220	324					
3,240	3,210					
3,220	3,220					
3,240	3,240					
3,230						
3,250						
3,230						
MIN. REQ.	2500					

Double Shear Strength Pounds / PSI	
,	
•	
,	
TOO SHORT TO TEST PER NASM1312-13	
MIN. REQ.	

ŀ	IARDNESS
ROCKY	VELL "C" SCALE
REQ.	26 - 32 HRC
SAMPLE SIZE	13
ACT	UAL RESULTS
	31-32 HRC

	META	LLURGICAL EX	AMINATION	•
Discontinuities	V	Cart	Decarb	Image: second control of the control
Grain Flow	Ø	Mic	rostructure	
Grain Size	Ø	Арр	pearance	밍
Thread Inspection FED-STD-H28/20 - A		System 21	System 🗹 22	System 23

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	
Liquid Penetrant Inspection per ASTM E1417	
Recess Torque Test	
Head Marking	図
Quality Assurance Representative	

AS9100, ISO9001 REGISTERED PJR #C2009-00297



MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER:

BILD INDUSTRIES

DATE: -08/02/09

PO NUMBER:

70926

MANUFACTURED QUANTITY:

111,000

LOT NUMBER:

45570

MATERIAL:

TYPE 8740

PART NUMBER:

MS27039-1-12

REVISION: 2

REQUIRED HARDNESS:

26 - 32 HRC

SAMPLE SIZE:

13

HARDNESS:

31-32 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.



DIAL TY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100/ISO9001 Regestered Company - PJR# C2009-00297



SOLD TO

Mac Fasteners 1110 Enterprise Street Ottawa, KS 66067 USA

CERTIFICATION

WORK ORDER 068775

HEAT NO. 581950 SALES ORDER / RLS 830311 / 1 ISO 2001-2000 REGISTERED



MECHANICAL TESTING CERT # 911.01

CUSTOMER P.O. 38007	custo 8740-	MER PAI	RT		QUANTITY 33,318		RIERS 19	LADING NO 00077738	SHIPMENT DATE 05/22/2009
SPECIFICATION A-8740, AQ, Si Specifications	KEG. CHO W	IRE. SA	MP Zinc Pi 322N, MIL	nosphate, S-6049A,	Lime & S AMEND. 1	tearate C , AMS-S	cating, Siz	e:0.1865/0.1876	,
CERTIFICATION R	EQUIREMENTS						 _		
				Chemic	al Propert	ies		<u> </u>	,
C . 4 2	81 .24	Mn . 94	P .009	8 .009	Ca . 15	Ni .43	Cr .41	Mo , 22	
				Physica	l Propert	ies			
	o Jominy 1 6 J5=55	Jomin J8=47		ny 3 Inc -43 S2	lusions -R1-C2	Macro GCOD	Cleanlin F&S=0	ess Mill Sou Charter	
Country of USA - DFAR				····					
				Mechani	cal Prope	rties			
TEST Tensile Streng Yield Strength % Elongation % Reduction of Rockwell Hard	of Area	K: K: % %	S1 ⁻		·				Results 85.2 72.4 24 72.8 88

Morchandise covered by this invoke is warranted to be free from defects in workingship or malarist but not for any opecific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective marchandise is limited to replacement of it, or to repayment of the purchase pice thereof, as we sted. Material cut to specific image, or size cannot be returned for credit and request for cancellation of such orders will not be considered if merutisative has been commenced. Buyer, by acceptance of the micromandiae overaid by this brotice, agrees to the foregoing terms and coudifions and floods ent forth on the reverse harved. The recording of takes, follows, or fraudulent statements or existing on this document may be purchased as a fetory under Federal statutes including Federal Ian, Title 18, Cheptor 47.*

PEPPRODUCTION OF THIS CENTIFICATION'S NOT ALLOWED UNLESS IN FULL.

Whe Tech, inc. metallurgical subpratory is accordated in the following tests: chemical sensive per ASTM E 416, metallurgical subpratory is accordated in the following tests: chemical sensive per ASTM E 416, decordulation performed as per in 140.

The reported Chemical and Propriete are falled Stantor results. Transcribed from not controlled from reting per ASTM E 45, decordulation performed as per in 140.

The reported Chemical and Propriete are forecasted from ASTM ASTO schole if and 2, Test result not covered by our ourself ASTA accordination. Tests which have been undertaken by a subcontractor test in 5 for a STM.

Limitation in the coverage of endorsed by ASLA or covered by Wire Tech, inc. ASLA accordination.

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ata302 (v1.1)

Material is free of mercury, radium, or alpha contamination.

05/22/2009

milori

Mike Martinez

page 1 of 1







EMAIL.

1658 Cold Springs Road Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

A Division of Charter Manufacturing Company, Inc.

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Wiretech incorporated 6440 East Canning Street Los Angeles, CA 90040-Attn:

2.00	6333-1
ALLE SERVICES OF THE SERVICES	8740C1A060-C-R
Charge Sales of the	290834
Heal #	581950
Shipto 4	569262
Lince	8740 R SK FG AQ
Process	SA
Finish Size	1/4

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies those requirements,

Lab Code: 738	ß		_		Tes	t Results	of Heat Lo	## 581950)			
OUTS, MELT S Chemistry W/%	OURCE H C 0.42	EAT NUM MIN 0.94	. = N/R P 0.009	S 0.009	SI 0.240	M · 0.43	CR 0.41	MO 0.22	CU 0.15	SN 0.00 0	V 0.001	
٠	AL 0.02 5	N 0.9970	B 0.0002	TI 0.002	NB 0.061							
Jominy (HRC)	JOM01 58	JOM02 57	JOM03 57	JON04 58	JOM05 55	JOMOS ST	JOM07 51	J01806 47	JOM09 45	JOM10 43	JOM11 40	JOM12 39
	JOM13 38	JOM14 36	JOM15 36	JOM16 35	JOM18 33	JOM28 32	JOM22 32	JOM24 31	JOM28 30	30 101128	30 10)(130	JOM32 30

JOMINY SAMPLE TYPE ENGLISH = B JOMINY LAB = 0358-01
CHEM. DEVIATION EXT.-GREEN = NIR
MACRO ETCH SURFACE = 1 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1
AMS 2301 FRQ AVE = 0.00 AMS 2301 FRQ IND = 0.00
AMS 2301 SEV AVE = 0.00 AMS 2301 SEV IND = 0.00

MAX ALLOWABLE DEFECT = 0.0000 QC DEVIATION EXT.-GREEN = N/R

Test Results of Rolling Lat # 415217

		Test Residu of P	rocessing Lot # 568	262	
	# of Tests	fifin Value	Max Value	Mean Value	
TENSILE (KSI)	2	85,3	85.7	85.5	TENSILE LAB = 0358-02
REDUCTION OF AREA (%)	2	64	65	64	RA LAB = 0358-02
ROCKWELL B (HRBW)	2	75	79	"	RB LAB = 0358-02
ROCKWELL C (HRC)	0	0	• 0	0	RC LAB = N/R

NUM DECARB = 2 FREE FERRITE DECARB = 0.000 FREE FERR & PARTIAL DECARB = 0.001 CP SPHERO % LAB = 0.888-02 NUM SPHERO = 2 SPHERODIZATION (%) = 80.0 QC DEVIATION EXT.-PROCESSED = N/R

Specifications:

Manufactured per Charter Steel Cuslity Manual Rev 8, 12-03-07

Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:

Customer Document = COP 3010 Revision = M Dated = 12-MAR-2003

Additional Comments:

MEETS REQUIREMENTS OF SPECIFICATIONS AMS0322N/AMS2301JMIL-S-6049A

Charter Steel Saukville, W.L. USA

Fax number: (323) 721-2738

Rem: Load1,Mail0,Fax0



Janice Barnard Manager of Quality Assurance 03/30/2009

E TRAY **Plating Works**

Specialized Electro-Plating and Polishing Nickel Passivate Copper Bright Dip Strip Copper Decorative Chrome Descale

Satin Chrome Zinc

Cadmium

10406 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052 Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@Aol.com

July 28, 2009

Mac Fasteners 1110 East Enterprise Street Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been stress relieved for 4 hours at 375+/-25 before cleaning cadmium plated per QQ-P-416/AMS-QQ-P-416/NAS4160, Type II, Class 2. Please reference our Invoice #136498 dated 07/28/09 for:

Lot#-45570

P.N.-MS27039-1-12

James T. Pierson, Vice-President

DE TRAY PLATING WORKS

Please Visit our Web Site: DeTrayPlating.com



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191 Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23652

LNE# QUANTITY U/M PART-NUMBER

CUST REF

LOT-NUMBER

MANUFACTURER

CCODE MPR DATE EXP DATE

20 BA MS171539

434108

SPIROL INT'L, STOW, 8773

Jason Lewis

Vice President of Quality

SPIROL

SPIROL INTERNATIONAL CORPORATION www.spirol.com

HARDWARE/COMPONENTS DELIVERED TO THIS ORDER.

Page Brn/Plt

Ord Date Print date 06/21/1 9/10/1

B/E AEROSPACE CONSUMABLES MANAGEMENT

SHIP TO:

9835 NW 14TH ST

MIAMI FL 33172

USA

56488

B/E AEROSPACE CONSUMABLES MANAGEMENT
PO BOX 025263

INVOICE TO:

MIANI PL 33102-5263

Continued

USA

25021

TERMS: NET 30 DAYS F.O.B.: SHIPPING POINT YOUR ORDER NUMBER DATE SHIPPED OUR ORDER NO. OPVB37 732009-000 FEDEX GRD ACCT #0331-0149-0 DO NOT INSURE ITEM NUMBER QUANTITY SHIPPED QUANTITY ORDERED QUANTITY BACK ORDERED DESCRIPTION Line 1.000 Combinatio 88291251625 SLTP .125X1.625 CP-N MS Pick 09/12/13 PC 2,000 2,000 X1368 BP 5000 P 1000 LOT 434108 Loc B013 MS171539>>> STATEMENT OF COMPLIANCE The item(s) described above has been produced in accordance with the agreed upon specifications and standards. NO CLASS I DZONE DEPLETING SUBSTANCES (ODS) WERE USED IN THE DÉSIGN, TEST, MANUFACTURE, INTEGRATION AND ASSEMBLY, HANDLING TRANSPORTATION, OPERATIONS, MAINTENANCE OR DISPOSAL OF THE

NO GOODS MAY BE RETURNED WITHOUT WRITTEN AUTHORIZATION

THE SALE OR PURCHASE IS SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE SIDE.

SPIROL INTERNATIONAL CORPORATION www.spirol.com

Ord Date Print date 06/21/1: 9/10/13

B/E AEROSPACE CONSUMABLES MANAGEMENT

SHIP TO:

56488

9835 NW 14TH ST

MIANI FL 33172

USA

INVOICE TO:

B/E AEROSPACE CONSUMABLES MANAGEMENT

PO BOX 025263

MIANI FL 33102-5263

USA

25021

TERMS: NET 30 DAYS F.O.B.: SHIPPING POINT

$P_{i}^{m_{i}}$		TEHMS: NET 30 DAYS F.O.B.:	
YOUR ORDER NUMBER	DATE SHIPPED OUR ORDER N	O. SHIPPE	DVIA
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NO.GOODS MAY BE RETURNED WITHOUT WRITTEN AUTHORIZATION

TERMS AND CONDITIONS ON THE REVERSE SIDE



Spirol International Corporation

30 Rock Avenue Danielson, CT 06239-1434 ISO/TS 16949:2002 Certified

Telephone: 860-774-8571 Fax: 860-774-2048

www.spirol.com

CERTIFICATION OF CONFORMANCE

Customer:

B/E AEROSPACE CONSUMABLES MANAGEMENT

09/10/2013

PO BOX 025263

MIAMI, FL 33102-5263

USA

Customer Order#: OPVB37

Spirol Order#:

732009-000 SO

Oty

Part Number

Product Description

Lot Number

Heat Number

2000

88291251625

SLTP 125 X 1.625 CP-M

434108

7911925-06

The item described herein is in conformance with the applicable specifications and additional requirements noted below. Inspection and test results are kept on file per applicable specifications and SPIROL International Corporation's internal document control procedures.

Additional Requirements:

Parts Heat Treated To HV423-544

Passivate Per AMS 2700 Method 1 Type 2 (400 Series Stainless) or Type 6 (300 Series Stainless)

Parts meet the minimum shear of: 2100 LBS.

This is to certify that to the best of our knowledge we do not add mercury to any of our processes or products.

Specification Number: NASM-171 Rev - 2

Part Number:

MS171539

Material conforms to DFARS 252.225-7009

Parts meet specification AS7207 for ductility Requirements (MS171)

NORTH AMERICA

Quality Assurance Inspector

SOUTH AMERICA



Spirol International Corporation

30 Rock Avenue Danielson, CT 06239-1434 ISO/TS 16949:2002 Certified

Telephone: 860-774-8571 Fax: 860-774-2048

www.spirol.com

MATERIAL CERTIFICATION

This document certifies the material used to manufacture Lot Number 434108 is made from Heat Number 7911925-06, conforms to the specifications required for Material type UNS S42000, and meets the actual specifications indicated below:

Chemical Analysis:

C (Carbon)	0.25	Si (Silicon)	0.51	Al (Aluminum)	0.002
Mn (Manganese)	0.49	Cr (Chromium)	12.79	Cu (Copper)	0.17
P (Phosphorus)	0.028	Mo (Molybdenum)	0.03	Sn (Tin)	0.006
S (Sulfur)	0.001	Ni (Nickel)	0.23		

Country of Melt: USA

This material is free from mercury contamination.

Date Printed:

07/17/2013

Title: OA manactor

This certification is based on information which has been provided and certified by our supplier to conform to the applicable specifications and is traceable to the original manufacturer through the lot and heat numbers(s) identified. Supplier raw material certificates are maintained on file for audit purposes.





Hardness Certification

 			-																	
SPIROL Item No: Description:						Customer Name: B/E Aerospace														
					Customer Part No:					 					-+	\longrightarrow				
Work Order No	<u>):</u>	434108																		
Heat No:		7911925-0	6		ļ															
Load: 500G.																				
•					_	_			Test Re	sult (HV	<u>) </u>					- 		Υ		
Data No Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Minimum	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0	423.0				
Maximum	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0	544.0		<u> </u>		<u> </u>
Actual Data	501.0	501.0	501.0	486.0	501.0	476.0	508.0	492.0	497.0	486.0	493.0	511.0	492.0	496.0	492.0	504.0		ļ 		<u> </u>
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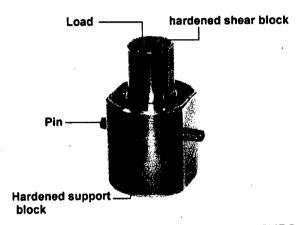
Spirol International Corporation

30 Rock Avenue Danielson, CT 06239-1434 ISO/TS 16949:2002 Certified

Telephone: 860-774-8571 Fax: 860-774-2048

www.spirol.com

SHEAR TEST REPORT



Double Shear tests are performed in accordance with ASME B18.8.2,

ASME B18.8.4M and ISO 8749 respectively.

Lot Number	434108
Description	SLTP .125 X 1.625 CP-M
Item Number	88295002000
Heat Number	7911925-06
Shear Block Size	.125
Minimum Shear	2100 LBS.
Operator Name	RUTH ROY

Testing is performed on a calibrated Instron Model 3384

Test date: Friday, June 28, 2013

	Max Load (lbf)	Max Extension (in)
1	2609.28	0.074
2	2623.12	0.071
3	2615.86	0.074
4	2512.88	0.072
	2706.23	0,074
6	2659.88	0.074
	2689.45	0.074
8	2671.04	0.074
9	2703.21	0.075
10	2671.67	0.074
	2561.50	0.068
11	2681.73	0.073
12	2451.99	0.070
13	2750.99	0.078
14	2604.17	0.070



Spirol International Corporation

30 Rock Avenue Danielson, CT 06239-1434

Deviation

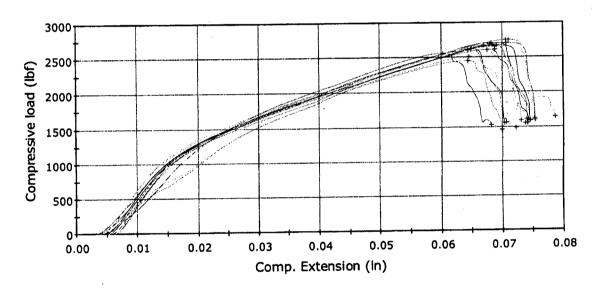
ISO/TS 16949:2002 Certified

Telephone: 860-774-8571

Fax: 860-774-2048 www.spirol.com

	Max Load (lbf)	Max Extension (in)
16	2752.24	0.075
Mean	2641.58	0.073
Minimum	2451.99	0.068
Maximum	2752.24	0.078
Standard	81.88	0.003

Specimen 1 to 16



All shear tests performed on these pins meet the minimum specifications and requirements.

NORTH AMERICA

EUROPE

RAMBALL TESTLAB, INC.

1703 INDUSTRIAL HIGHWAY - UNIT 3 CINNAMINSON, NJ 08077-2546 PHONE: (856) 786-8880 FAX: (856) 786-3144

LABORATORY REPORT

Submitted to:

7/23/2013

Spirol International Corporation

30 Rock Ave.

Danielson

CT

06239

P.O. Number: 173529

Lab Number: 337292

Page 1 of 1

ATTN: Quality Dept.

Item: SLTP .125 x 1.625 CP-M
Material: 420 SS Low Carbon
Part Number: 88291251625

Lot Number: 434108

G/L Account Number: 113.30360

Item Number: 42978

EXAMINATION OF MICROSTRUCTURE

Test Specification: SAE AMS 7207

Acceptance Criteria: Microstructure shall be tempered martensite and

shall be free from grain boundary carbide network.

Disposition: Acceptable

Joel Muzik / Ouality Manager

We certify that the above results are correct as contained in the records of this company. This report shall not be reproduced, except in full, without the permission of Ramball Testlab, Inc. Testing is performed in accordance with the appropriate method identified in the above listed product or material specification. The method of testing is performed in accordance with the current revision at the time of test, unless otherwise specified. The recording of false, fictitious or fraudulent statements or entries on this document may be punishable under federal statutes including Federal Law, Title 18, Chapter 47. We are an ISO 17025 Accredited Laboratory, by multiple agencies. Testing and or inspections were performed in accordance with Ramball Testlab Quality Manual Rev. 12. AZIA Certificate Number: 142.01. During test and inspections this product did not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment.